APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

Dynamic Pressure Stage Elements for the Projection of Intense Monokinetic Corpuscular Beams Into Gases at High Pressure, by B. Schumacher, 13 pp.

GERMAN, per, Optik, Vol X, 1953, pp 116-131.
Avail from Assoc Tech Serv Tr 83F40, East Orange, N. J.

AEC Tr 2070

Scientific - Physics Mar 55 CPB/DMX

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Application of Intense Corpuscular Beams for the Excitation of Gases, by A. E. Grun, E. Schopper, B. Schumacher, 4 pp.

GERMAN, per, Z. angew. Phys., Vol H VI, 1954, pp 198-200. Avail from Assoc Tech Serv Tr No 84F4G, East Orange, N. J.

AEC Tr 2072

Scientific - Physics Mar 55 CTS/DSI

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Observations on an Altocumulus Deck, by C. Schumacher, 9 pp.

GERMAN, per, Zeitschrift fuer Angewandte Meteorologie, Vol LVII, 1940, pp 214-220.
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Sci - Geophysics 34,452

May 1956

APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

Focusing Ion Exchange. V. Separation of Metal Ions, Particularly of Radioactive Indicators, by Proton Exchange, by E. Schumacher, E. J. Streiff, 37 pp.

GERMAN, per, Helv Chim Acta, Vol XLI, 1958, pp 824-843.

AEC UCRL-Trans-617(L)

Sci - Chem
Apr 61

149,023

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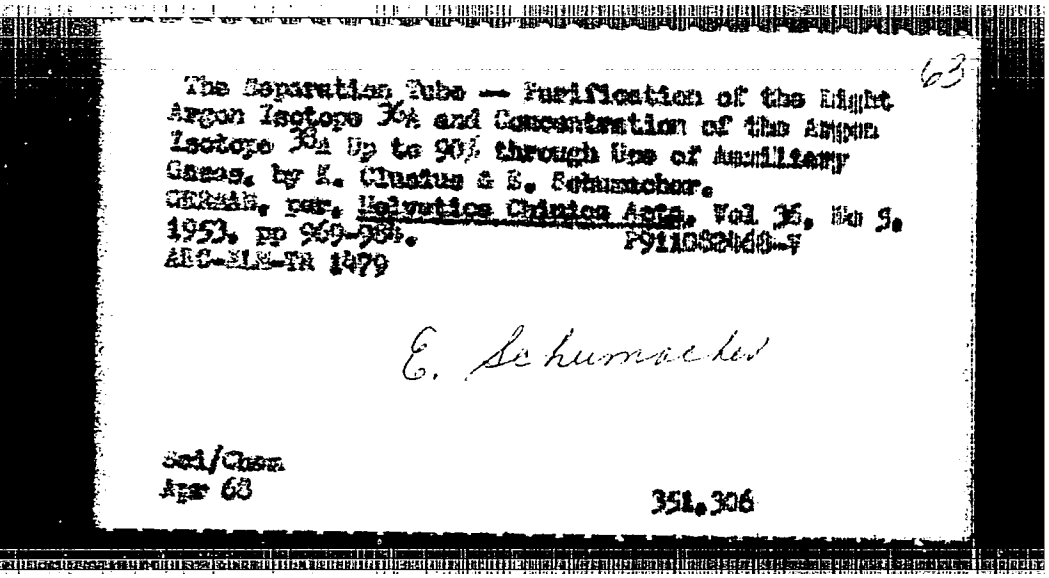

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Ger. text, Helvetica Chimica Acta, Vol 36, No 5, 1953, pp 969-986.

AEC-tr-1479

E. Schumacher

Sci/Chem
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351.306

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Geochemistry. VII. Treatment Plant for Tritium in Natural Water, by E. Schumacher, 32 pp.

GERMAN, per, Helv Chim Acta, Vol XLIII, 1960, pp 1019-1032.

AEC NP-Tr-607

166,196

Sci
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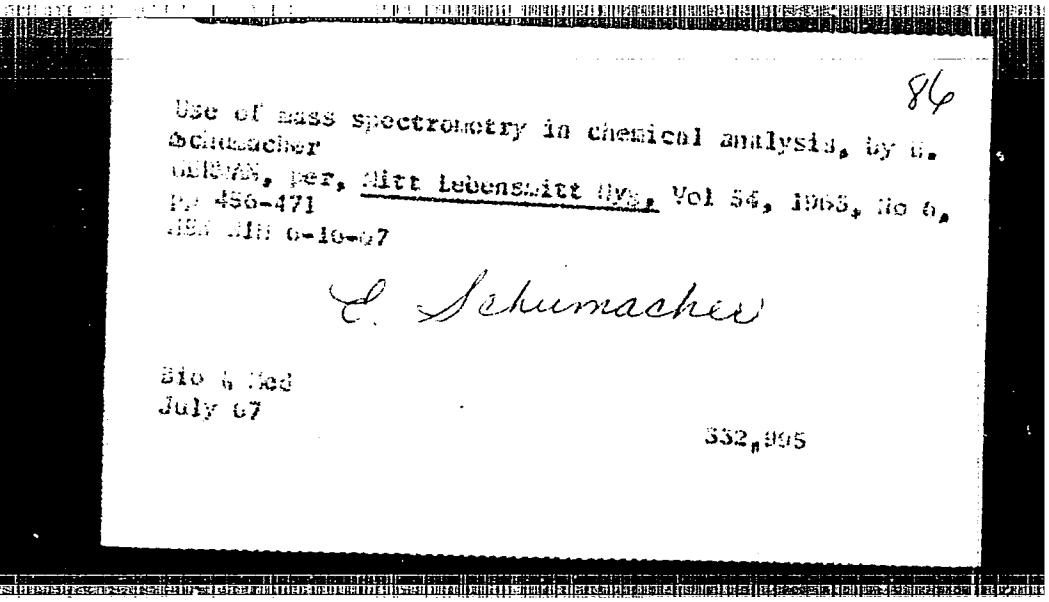

86

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GERMAN, per, Mitt Lebensmitt Hyg, Vol 54, 1963, No 6, p 456-471
DDC AII 6-10-67

L. Schumacher

Bio & Med
July 67

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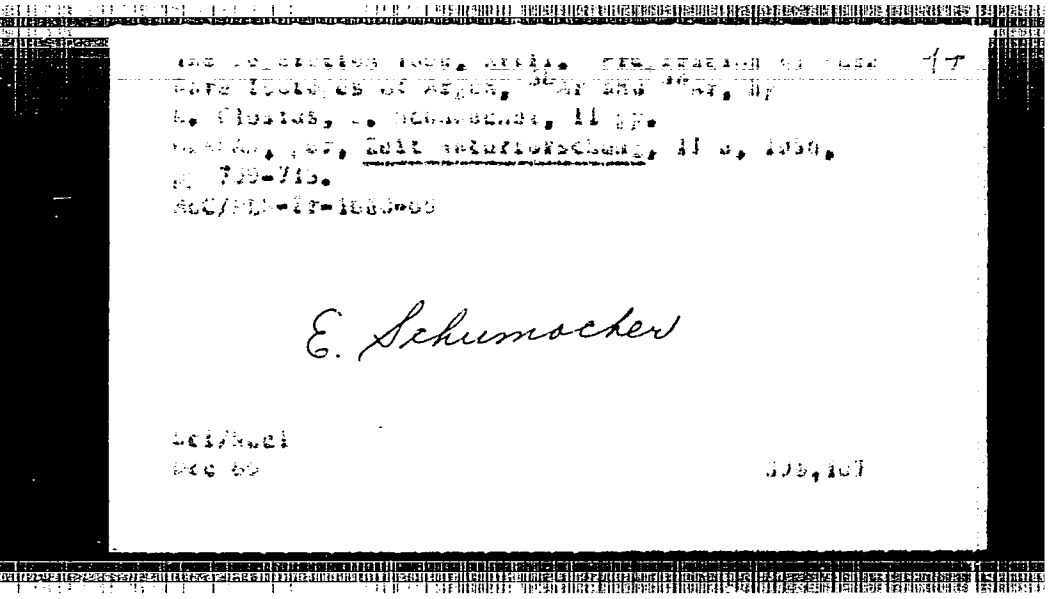

E. Schumacher

APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

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Focussing Ion Exchange I. Principle and Simple Theory, by Ernst Schumacher,

GERMAN, per, Helv Chim Acta, Vol XL, 1957, pp 221-226.

AEC UCRL-Trans-613(L)

Sci - Phys
May 61

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APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

Focusing Ion Exchange. IV. Theory of the Focusing Effect, by [redacted] Ernst Schumacher, 35 pp.

GERMAN, per, Helv Chim Acta, Vol L, 1957, pp 2322-2340.

AEC UCRL-Trans-627(L)

Sci - Chem
May 61

150/382

APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

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The Paper Ion-Exchange. VII. Quantitative Microanalysis of Heavy Metals and Rare Earths, by Ernst Schumacher, Hans Jakob Streiff, 15 pp.

GERMAN, per, Helv Chim Acta, Vol XLI, 1958, pp 1771-1783.

AEC UCRL-Trans-622(L)

Sci - Chem
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APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

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Focusing Ion-Exchange. VI. Apparatus for the Continuous Separation of Metal Ions (And Other Electrolytes), by Ernst Schumacher, Rene Fluher, 10 pp.

GERMAN, per, Helv Chim Acta, Vol XLI, 1958, pp 1572-1581.

AEC UCRL-Trans-609(L)

Sci - Phys
Apr 61

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APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

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On Electrophoretic Ion Focussing[1,2] The Analysis of Rare Earth Mixtures, by Walter Friedli, Ernst Schumacher, 44 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XLIV, 1961, pp 1829-1856. 9993937
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AEC UCRL-Tr 851

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Focusing Ion Exchange. II. Rapid Separation of Radioactive Indicators, by Ernst Schumacher, Hmmm Hans Jakob Streiff, 7 pp.

GERMAN, per, Helv Chim Acta, Vol XL, 1957, pp 234-236.

AEC UCRL-Trans-616(L)

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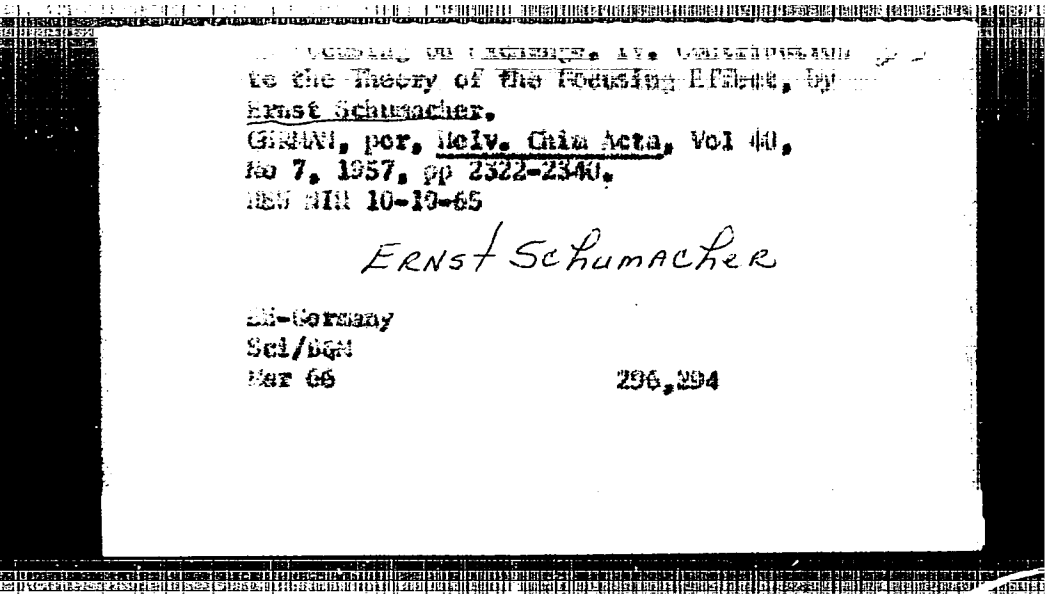

[illegible] to the Theory of the Fouling Effect, by
Ernst Schumacher.
GERMANY, per, Helv. Chim Acta, Vol 40,
No 7, 1957, pp 2322-2340.
DECLASSIFIED 10-10-65

ERNST SCHUMACHER

Ch-Germany
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Per 66 296,294

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Focusing Ion Exchange. II. Rapid Qualitative Analysis of Cations, by Ernst Schwarzacher, Hans Jakob Streiff, 15 pp.

GERMAN, per, Helv Chim Acta, Vol XL, 1957, pp 228-233.

AEC UCRL-Trans-615(L)

Sci - Chem

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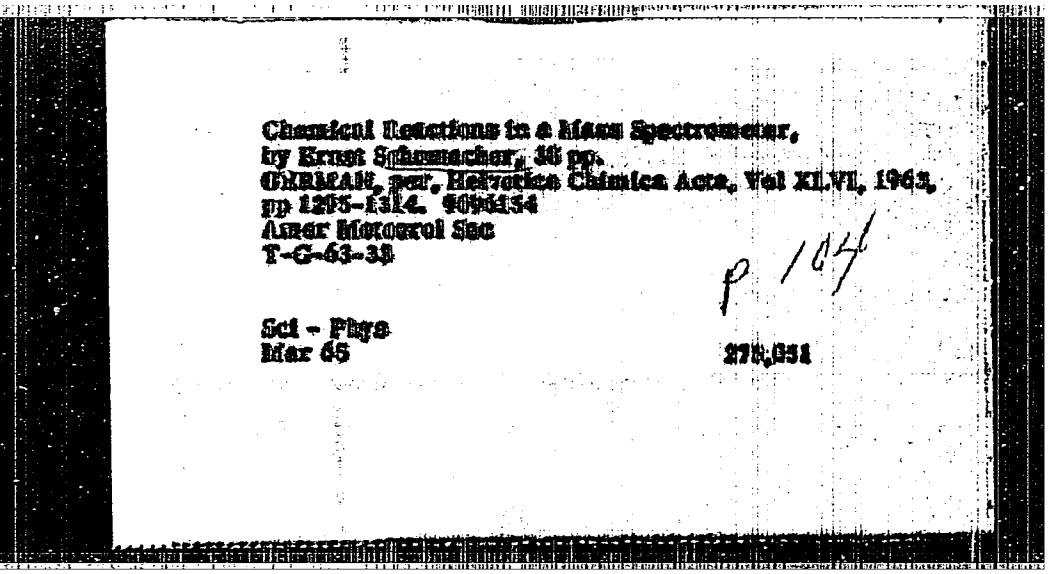

Chemical Reactions in a Mass Spectrometer,
by Ernst Schumacher, 36 pp.
CHEMIA, Helv. Helvetica Chimica Acta, Vol XLVI, 1963,
pp 1295-1314. 4094154
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Sales Accounting in an Integrated Steelworks With Special Reference to Electronic Data Processing Units, by H. Bodewig, G. Schumacher.
GERMAN, per. Stahl und Eisen, Vol LXXXIII, 1963, pp 930-939.
BISI 3379

Sci - Math & Data Process
May 64

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Tests With an Alternating Current H Glow Anemometer Under Steady Conditions, by W. Fucks, G. Schumacher

GERMAN, per, ZWB UM, No 1189, 1944.

Nat'l Res Council Canada TT 58

Scientific - Aeronautics
Jul CIS/DEX Price 0.50 16,143

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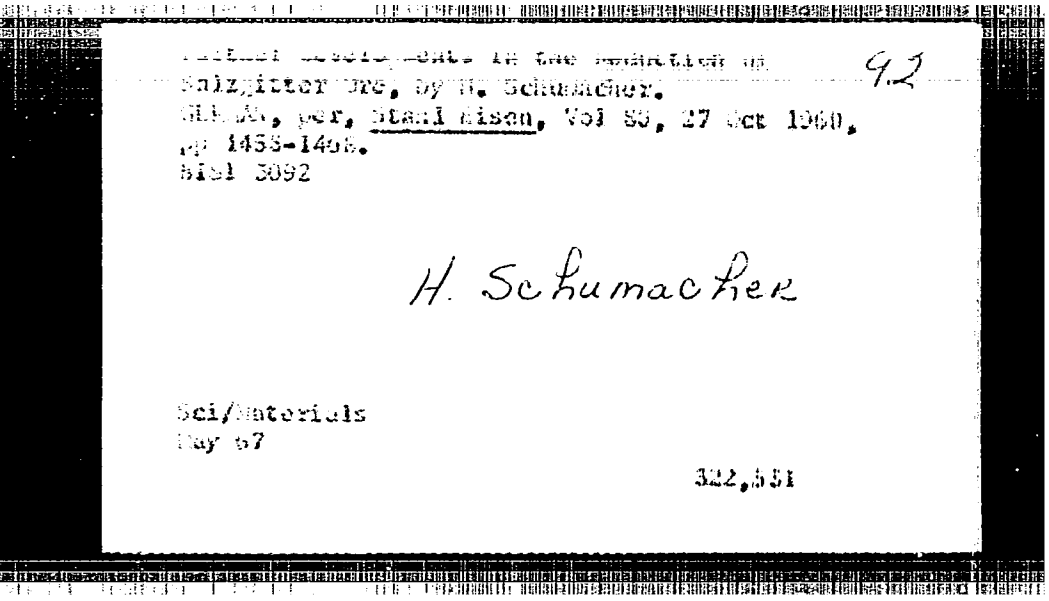

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Anizzitor Org, by H. Schumacher.
[illegible], per, Stahl Eisen, Vol 80, 27 Oct 1960,
pp 1453-1456.
Bibl 3092

H. Schumacher

Sci/Materials
May 67

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Pharmacology of the Calcium Disodium Complex Slat and the Disodium Salt of Ethylen Diamine Tetraacetic Acid, by P. Marquardt, H. Schumacher, 9 pp.

GERMAN, per, Schweiz Med Wochschr, Vol LXXXV, 8 Oct 1955, pp 1003-1005.

SLA 57-1331

Sci - Medicine
Apr 58

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APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

Further Developments in the Reduction of Salzgitter Ore, by H. Schumacher.

GERMAN, rpt, Rheinisch-Westfalische Technische Hochschule.

BISI 3092

Sci - M/M
Feb 63

222,527

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APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

Schumacher, H. J. and Sprenger, G.
THE REACTION BETWEEN NITROGEN PENTOXIDE AND OZONE, II. 16 Feb 61, 14p. 9 refs.
Order from SLA $1.60 63-10602

Trans. of Zeitschrift für Physikalische Chemie, Leipzig (Germany) 1929, v. 2B, p. 267-281.

DESCRIPTORS: *Nitrogen compounds, Oxides, *Ozone, Chemical reactions, Pressure, Photographic analysis, Decomposition, Oxidation.

The reaction between nitrogen pentoxide and ozone was investigated in an apparatus which permitted photographic measurement of the reaction mixture and at the same time measuring the pressure. The concentrations of N_2O_5 and O_3 were varied to the widest extent (N_2O_5 = 1 : 120, O_3 = 1 : 200). We succeeded in setting up an equation which represents the reaction course exactly, and in finding a scheme which leads to this equation. (Author)

63-10602

I. Schumacher, H. J.
II. Sprenger, G.

(Chemistry—Inorganic, TT, v. 10, no. 1)
Office of Technical Services

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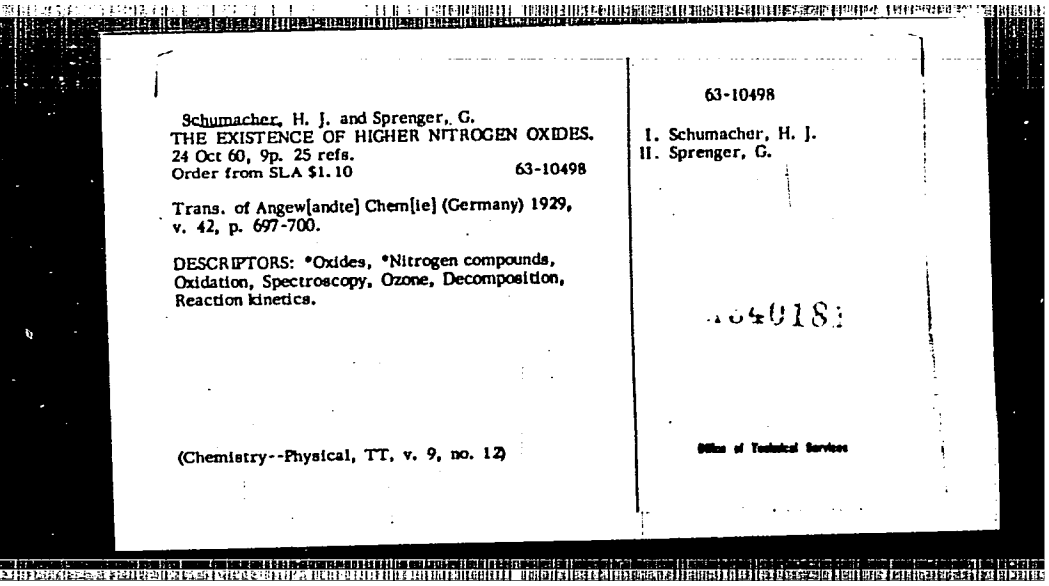

Schumacher, H. J. and Sprenger, G.
THE EXISTENCE OF HIGHER NITROGEN OXIDES.
24 Oct 60, 9p. 25 refs.
Order from SLA $1.10 63-10498

Trans. of Angew[andte] Chem[ie] (Germany) 1929, v. 42, p. 697-700.

DESCRIPTORS: *Oxides, *Nitrogen compounds, Oxidation, Spectroscopy, Ozone, Decomposition, Reaction kinetics.

(Chemistry--Physical, TT, v. 9, no. 12)

63-10498

I. Schumacher, H. J.
II. Sprenger, G.

[illegible]

Office of Technical Services

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The Operation of the Low-Shaft Blast-Furnace, by Heinz Schumacher, 16 pp.

GERMAN, per, Stahl und Eisen, Vol LXXIII, No 5, 1953, pp 257-266.

SLA 60-18242

Sci

146,153

Apr 61

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APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

Schumacher, H. J.
MECHANISM OF THE THERMAL REACTION BETWEEN CHLORINE AND OZONE. 18 Jan 61, 19p. 8 refs.
Order from SLA $1.60 63-10549

Trans. of Z[eitschrift fiir] Phys[ikalische] Chem[ie] Frankfurt (West Germany) 1957, [Neue folge] v. 13, p. 353-367.

DESCRIPTORS: Reaction kinetics, *Chlorine, *Ozone, *Thermochemistry, Decomposition, Quantitative analysis, Chemical reactions, Heat of activation.

A complete scheme is given for the reaction between chlorine and ozone, in which allowance is made for the chlorine trioxide decomposition occasioned by the chlorine heptoxide formation. Experiments are (Chemistry--Physical, TT, v. 10, no. 2) (over)

63-10549

I. Schumacher, H. J.

Office of Technical Services

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A Kinetic Study of the Reaction F_2+2ClO_2, = $2FClO_2$, by P. J. Aymonino, J. ## E. Sicre, H. J. Schumacher, 32 pp. (AF 713207).

Full tr

SPANISH, per, Anales de la Asociation Quimica Argentina, Vol XLIII, No 207, Mar 1955, pp 26-54.

ATIC F-TS-8886/V

Scientific - Chemistry
Feb 1957 CTS/DEK

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The Thermal Reaction of Fluorine and Chlorine Perchlorate (Cl_2O_6), by A. J. Arvia, M. H. Raimondo, H. J. Schumacher, 3 pp. (AF 72307)

Zeitschr. fur Angewandte Chemie, Vol LXVII, No 19/20, Jul 1955, p 616.

ATIC F-TS-8884/III

Sci - Chemistry
Oct 1956

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Limits of the Hydrogen-Air Mixture, by H. J. Schumacher
E. Baum, 14 pp.

Full translation.

SPANISH, Faculty of Chemistry and Pharmacy, Research Institute La Plata.

CIA/FDD Z-25

ME - Spain
Scientific - Chemistry, Explosive limits, Hydrogen-air mixture

A 10577

Oct 52 CIB/DEX

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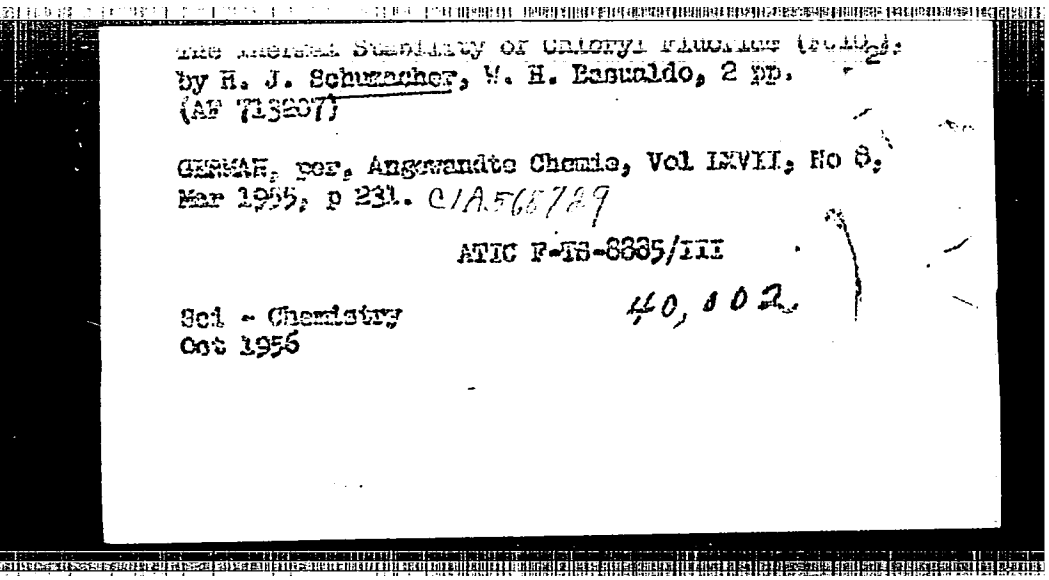

The Thermal Stability of Uranyl Fluorides (UO_2F_2).
by H. J. Schumacher, W. H. Rosvaldo, 2 pp.
(AF 713207)

GERMAN, per. Angewandte Chemie, Vol LXVII, No 8,
Mar 1955, p 231. CIA-564789

ATIC F-TS-8835/III

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Sci - Chemistry
Oct 1956

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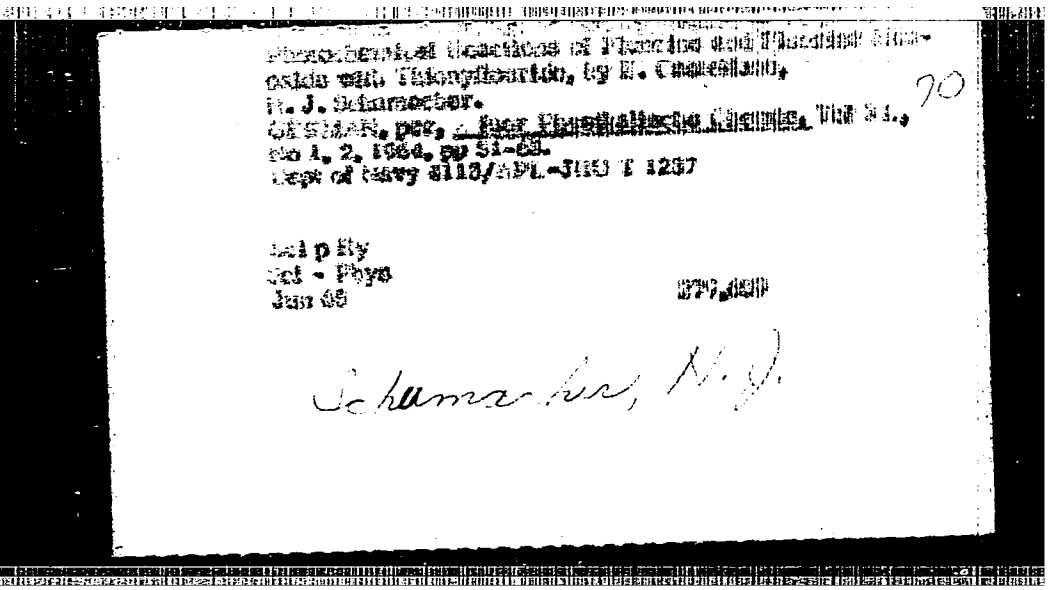

Photochemical Reactions of Fluorine and Fluorine Monoxide with Tetrafluoroethylene, by E. Castellano, H. J. Schumacher.
Obtain, per, Inor Chem(Acta Chim), Vol 31, No 1, 2, 1964, pp 51-62.
Dept of Navy 8113/ADL-JHS 1 1257

Help Fly
Cat - Phys
Jan 66

370.420

Schumacher, H. J.

APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

KOBLITZ, W.
SCHUMACHER, H. J.

The Ther mal Decomposition of F_2O; a Monomolecular Decomposition Represented by a Second Order Reaction.

GERMAN, Zeitschrift fuer Physik Chem, Vol XXV B, 1934, pp 283 - 300.

AEC Tr 491

June 1951 CTS

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APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

Schumacher, Hans J. and Sprenger, G.
THE REACTION BETWEEN NITROGEN PENTOXIDE AND OZONE. 8 Feb 61, 20p. (fig. omitted) 23 refs.
Order from SLA $1.60 63-10601

Trans. of Zeitschrift für Physikalische Chemie, [Leipzig] (Germany) 1928, v. 136A, p. 77-92.

DESCRIPTORS: Chemical reactions, *Oxides, *Nitrogen compounds, *Ozone, *Reaction kinetics, Decomposition, Molecular spectroscopy.

It is shown that a bimolecular reaction takes place between N_2O_5 and O_3. The reaction is probably a chain reaction. Its rate can be represented by the equation $\frac{dC}{dt} = 8.7 \cdot 10^{15} \; e^{-\frac{22000}{RT}} \cdot C_1 \cdot C_2$. It has been shown spectroscopically that with the action of ozone
(Chemistry--Physical, TT, v. 10, no. 1) (over)

63-10601

I. Schumacher, H. J.
II. Sprenger, G.

Office of Technical Services

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The Photochemical Formation of Carbon Tetrachloride From Chloroform and Chlorine, by Hans-Joachim Schumacher, Kurt Wolff, 14 pp.

GERMAN, per, Z Physik Chem (Leipzig, Vol XXV B, 1934, pp 161-176.

AEC UCRL-Trans 545

Sci - Phys, Chem
26 Oct 60

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45

On the Determination of Lysozyme Activity in Biological Material, Especially in Tears, by Heinz Schumacher, 9 pp.
GERMAN, per, Ztschr Immunit., Vol 110, Oct 20, 1953, pp 389-394.
Dept of Navy NIC Trans 3108

NAV/NIC/

Heinz Schumacher

Sci/B&M
Oct 70

APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

APPROVED FOR RELEASE: Thursday, September 19, 2002 CIA-RDP84-00581R000200470079-9

Schumacher, Heinz.
RELATIONSHIP BETWEEN BLAST-FURNACE BURDEN AND FUEL ECONOMY IN IRON AND STEEL WORKS. [Nov 48] 11p. 5 refs.
Order from SLA mi$2.40, ph$3.30 60-18218

Trans. of Stahl und Eisen (West Germany) 1947, v. 66/67 [no. 23/24] p. 375-379.

(Unannounced)

60-18218

1. Iron industry--Germany
2. Steel industry--Germany
3. Blast furnaces--Fuel consumption
4. Fuels--Availability
5. Title: Lead burden
I. Schumacher, H.

Office of Technical Services

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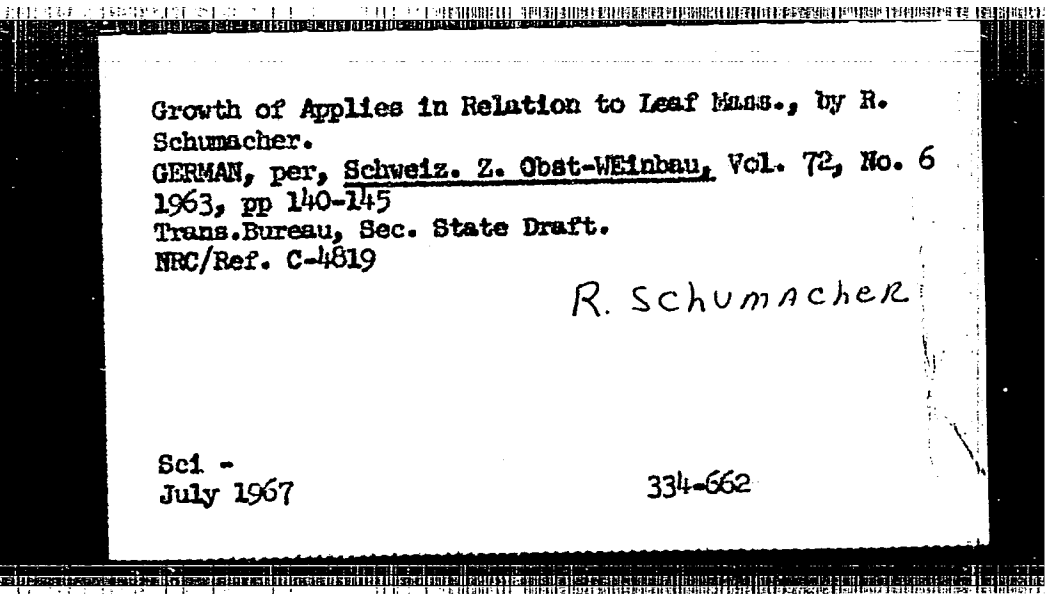

Growth of Applies in Relation to Leaf Mass., by R. Schumacher.
GERMAN, per, Schweiz. Z. Obst-WEinbau, Vol. 72, No. 6 1963, pp 140-145
Trans.Bureau, Sec. State Draft.
NRC/Ref. C-4819

R. Schumacher

Sci -
July 1967

334-662

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THE ORAL CAVITY, BY S. SCHUMACHER, 23 PP.

GERMAN, BK, HANDBUCH DER ANATOMIE DES MENSCHEN, VOL V, PART 1, 1927, PP 1-22.

NIH 5-5-62

SCI - MED

207,940

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The Structure of the Cheeks Including the Inner Lining as Compared to That of the Lips, by S. Schumacher, 30 pp.

GERMAN, per, Z fuer die Gesamte Anatomie, Vol LXXIII, 1924, pp 247-276.

NIH 1-36-62

186,398

Sci - Med

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New Knowledge Concerning Carbon Dioxide Process, Waldemar Schumacher, 27 pp.

GERMAN, per, Giesserei, Vol XLII, No 24, 1955, pp 653-659.

SIA 60-10279

Sci
Feb 62
Vol III, No 11

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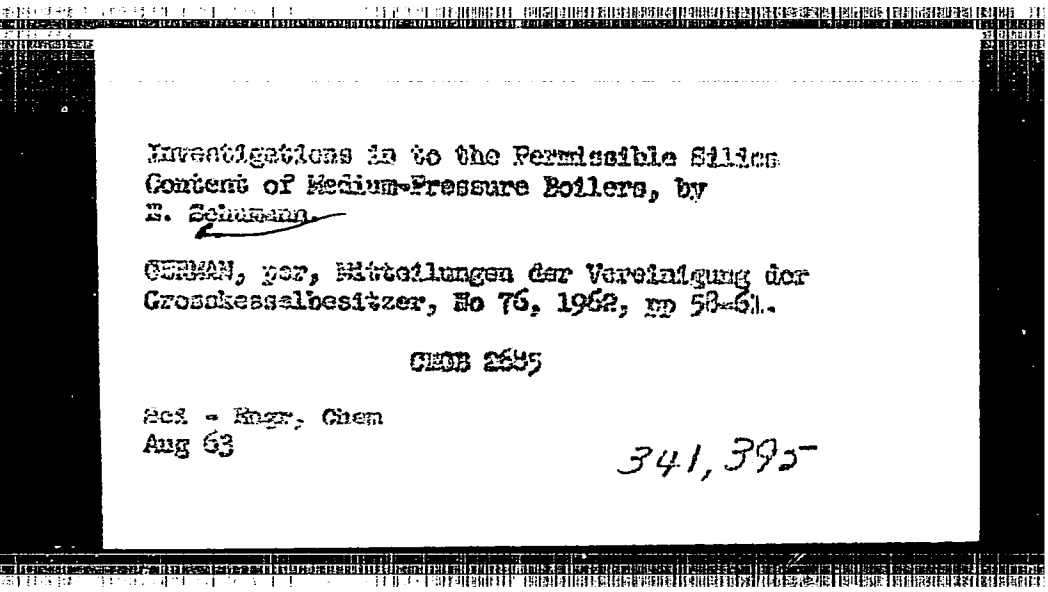

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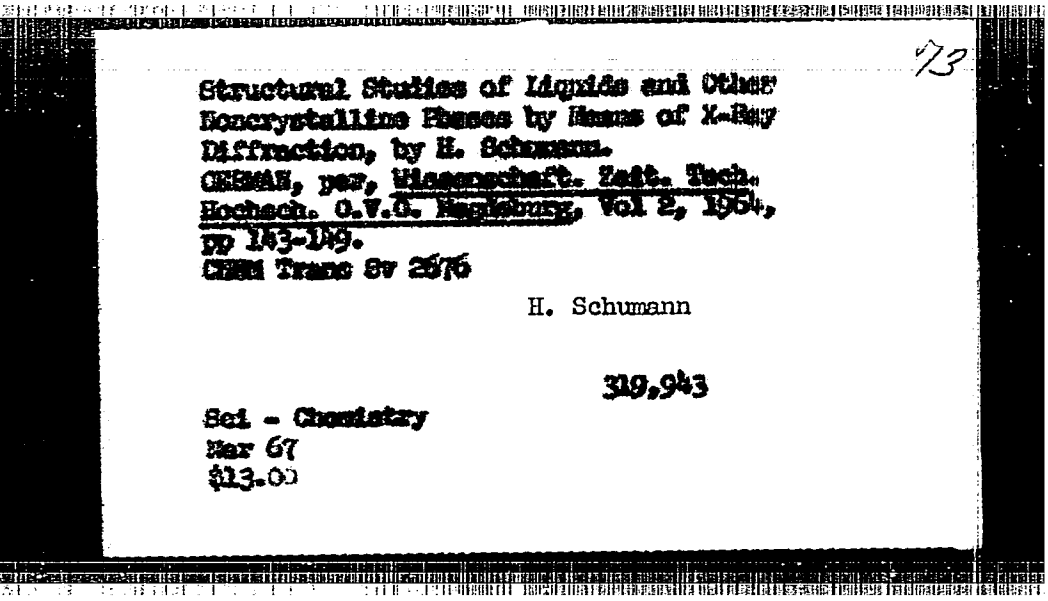

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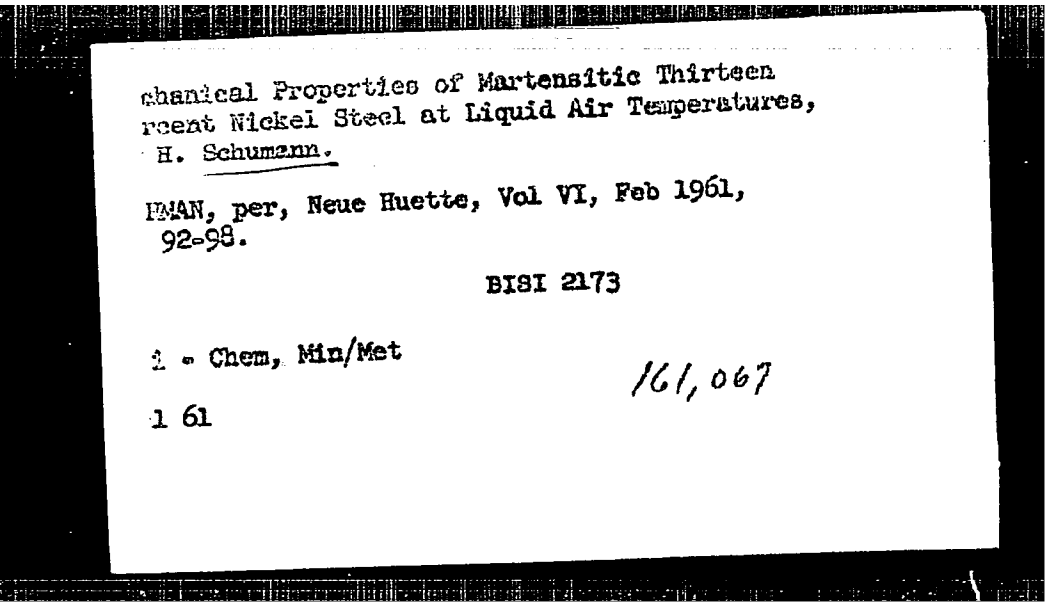

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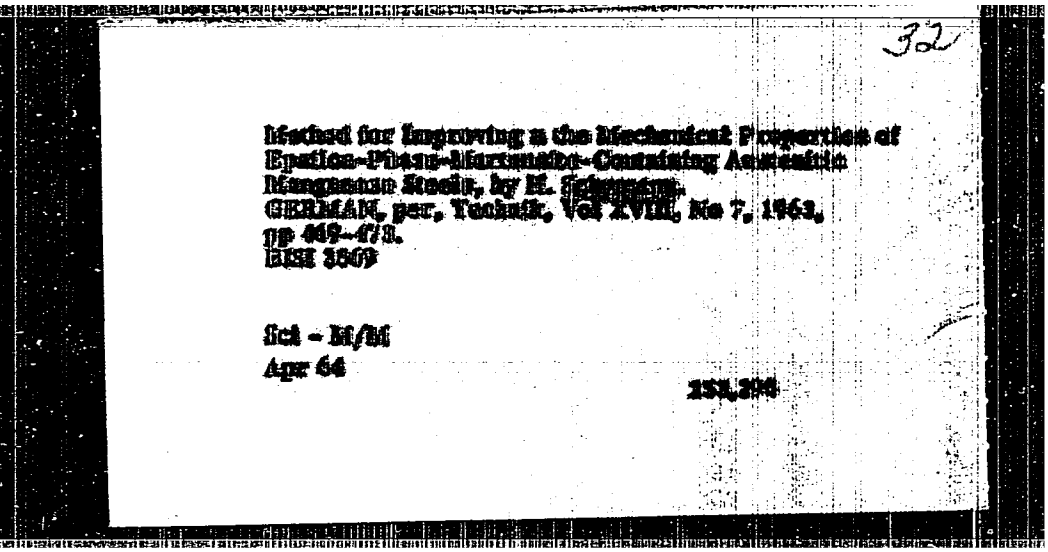

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61-14759

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DISSOCIATION OF THE "PHTHALYL" GROUP OF AMINO ACIDS AND N-PHTHALYL PEPTIDES BY PHENYLHYDRAZINE. [1961] [5]p. 10 refs.
Order from SLA $1.10 61-14759

Trans. of Helvetica Chimica Acta (Switzerland) 1952, v. 35, p. 2235-2237.

DESCRIPTORS: *Amino acids, *Peptides, Synthesis, *Phthalyl radicals, Dissociation, Hydrazines, Phenyl radicals, Chemical reactions.

The phthalyl group of N-phthalyl derivatives of amino acids and peptides is removed in one step by heating in alcoholic solution with phenylhydrazine and a tertiary base. (Author)

(Chemistry--Organic, TT, v. 6, no. 3)

61-14759

I. Schumann, I.
II. Boissonas, R. A.

Office of Technical Services

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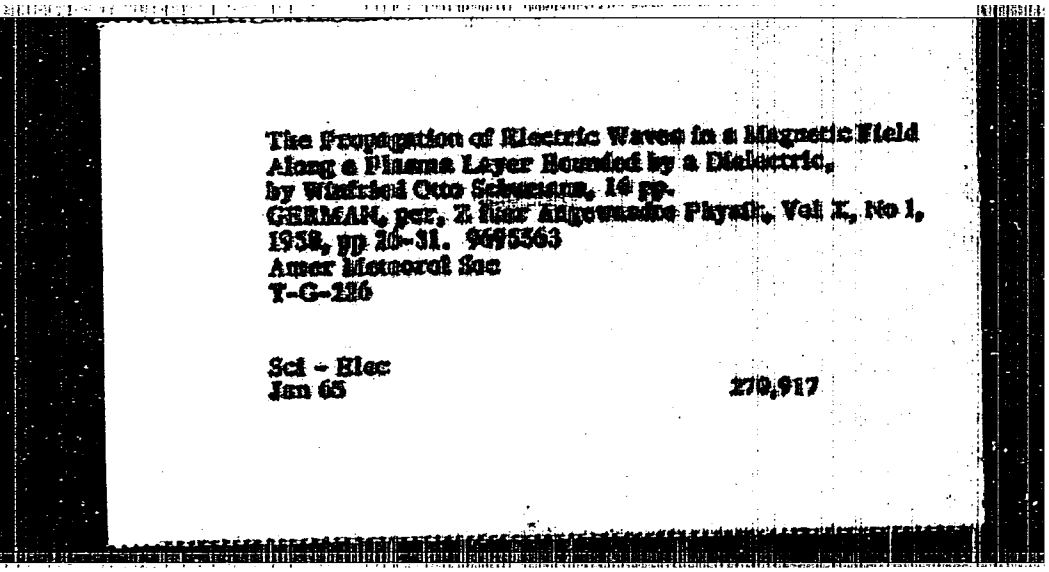

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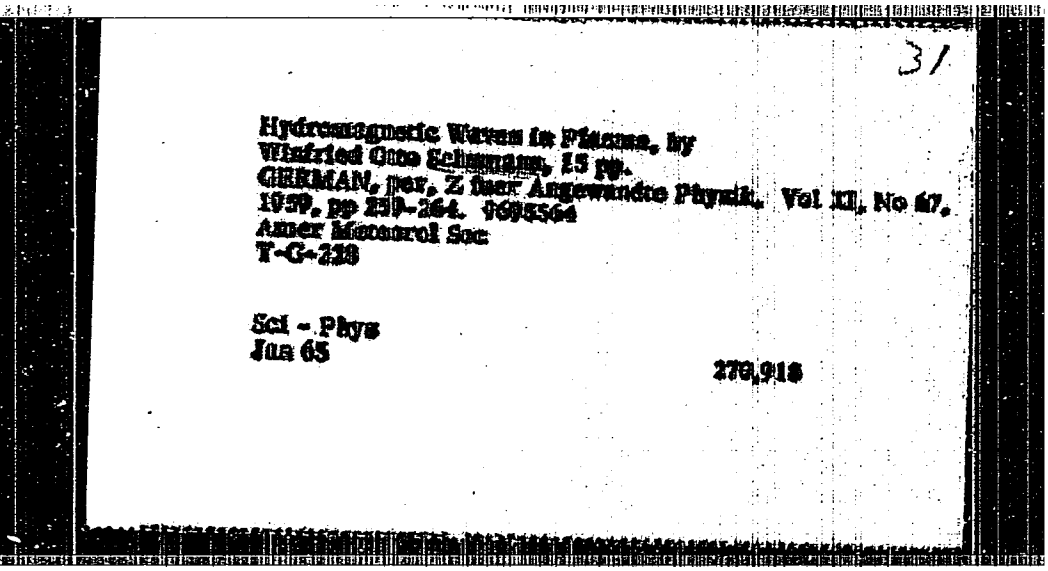

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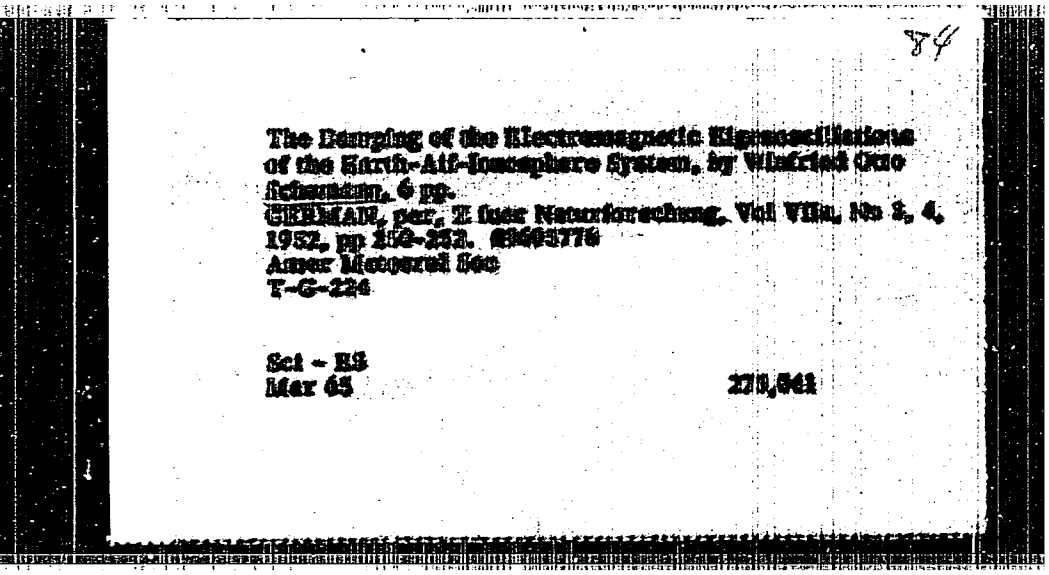

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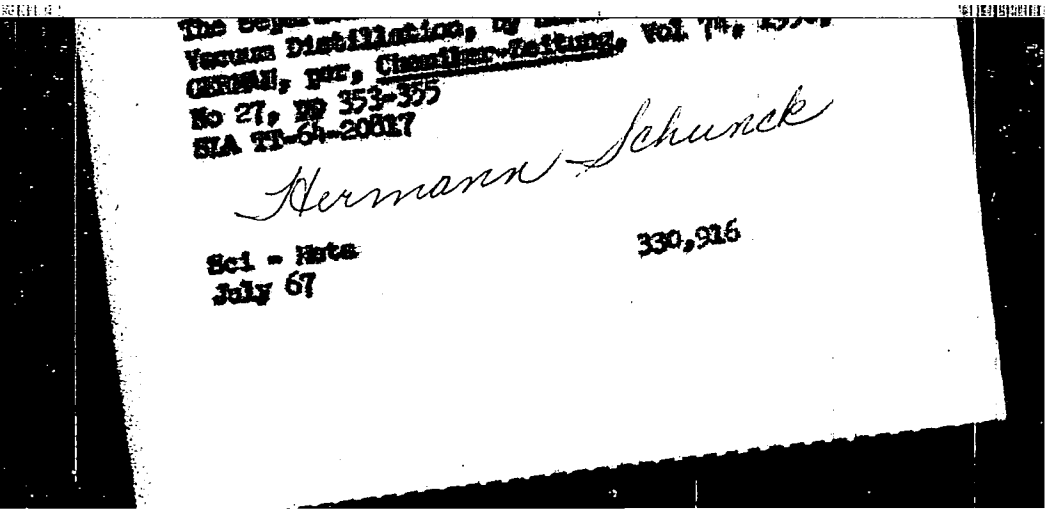

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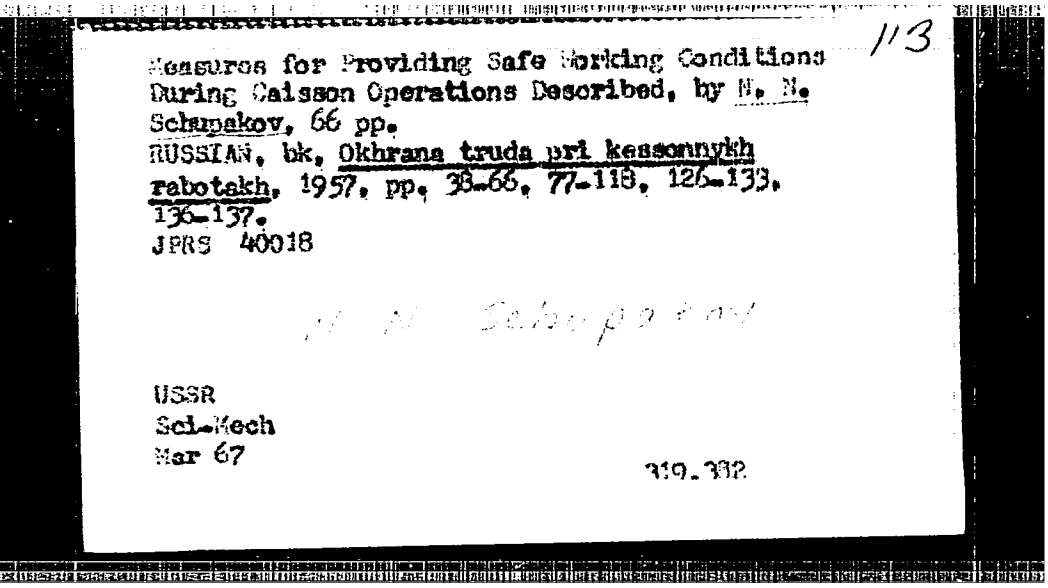

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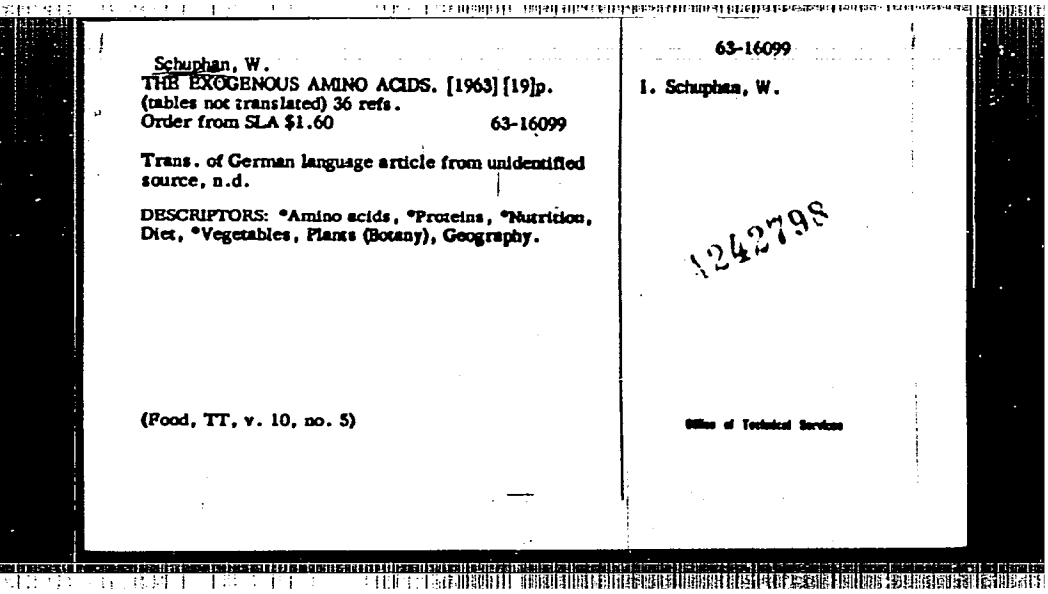

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Trans. of German language article from unidentified source, n.d.

DESCRIPTORS: *Amino acids, *Proteins, *Nutrition, Diet, *Vegetables, Plants (Botany), Geography.

(Food, TT, v. 10, no. 5)

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